Proton Magnetometer with RS-232C Interface

This proton magnetometer measures geomagnetic fields and gradients, and it is equipped with an RS-232C computer interface. It is applicable for use in field surveys or base station measurements, and it can be used with optional GPS to preset longitude and latitude.

Overview

Professional Proton Magnetometer

This next-generation proton magnetic detector offers high-precision measurement capabilities with a resolution of up to 0.1nT. Designed for versatility, it supports both total field and gradient measurements, making it an essential tool for geological surveying, mineral prospecting, and environmental disaster monitoring. With integrated GPS, RS-232C connectivity, and a portable, user-friendly design, it streamlines complex field data collection and analysis.

Measurement Performance

Measurement Range	20000 nT
Measurement Precision	1 nT
Resolution	0.1 nT
Allowed Gradient	5000 nT/m

Technical Details

GPS Positioning Accuracy	2.5 m
Data Storage Capacity	50000 points
Data Interface	RS-232C standard serial port
Power Supply	External rechargeable lithium batteries (14.5V/3Ah) or external power supply
Operating Temperature	-10°C to +50°C

Physical Characteristics

Mainframe Dimensions	230mm x 155mm x 65mm
Mainframe Weight	2.2 kg
Sonde Weight	0.8 kg
Display Screen	240x128 pixel backlit LCD

Key Features

Operational Capabilities

- Integrated GPS with automatic position calculation
- Automatic and manual full-range tuning
- Backlit display for night operation
- Two-handed user-friendly keyboard
- Power-off protected data storage
- GPS time synchronization

Applications	Mineral Prospecting, Geological Mapping, Archeology, Hydrology, Pipe Detection, Volcano Observation, Earthquake Monitoring